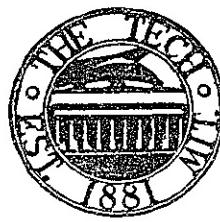


# The Tech



OFFICIAL NEWSPAPER OF THE UNDERGRADUATES OF MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VOL. LXXII NO. 48

CAMBRIDGE, MASS. TUESDAY JANUARY 6, 1953

5 CENTS

## First DeMolay College Chapter Established Here at Institute

The world's first university chapter of the Order of DeMolay has been instituted at the Institute.

The "Tech" Chapter, which becomes the only one in the world that is not geographically limited, draws its members from 25 States and includes nine Past Master Councilors in its membership.

Appropriately enough, the new Chapter is sponsored by the first university lodge of the Masonic Order, the Richard C. Maclaurin "Tech" Lodge, which was instituted at the Institute in 1920.

Installation of officers for this historic chapter was held December 17 at the Cambridge Masonic Temple on Massachusetts Ave. in Porter Square. The installation was held jointly for both the "Tech" Chapter and the "Tech" Lodge.

### Smith Master Councilor

Master Councilor of the "Tech" Chapter is Ronald P. Smith, '50, of Saginaw, Michigan, a Past Master of his home chapter in Michigan. The other two Councilors, both Past Masters of their home chapters, are Phillip B. Allen, '56, Senior Councilor, of Bridgeport, Connecticut, and Robert R. McMath, '55, Junior Councilor, of Salamanca, New York.

Officers from Massachusetts to be installed tonight are James H. Wait, Treasurer, of Brookfield; John W. Blake, Almoner, of Quincy, and George W. Newton, Jr., Third Preceptor, of Concord.

## E.D.P. Offers New Courses For Men Now In Industry

The long established Executive Development Program, covering one year of advanced study in industrial management at the Institute will be substantially expanded in 1953-54.

Dean E. P. Brooks of the M.I.T. School of Industrial Management last night announced plans for the 1953-54 program and for the Sloan Fellowships which will be awarded to its members. The fellowships, he said, will be given to young industrial executives who have already demonstrated their ability to grow into major management responsibilities and who are assured of opportunities for constructive leadership in their companies.

### Competition Still Open

A nationwide competition for fellowships to the Program, under a grant of funds from the Alfred P. Sloan Foundation, Inc., will close on February 21, 1953.

The year's study in the Executive Development Program is devoted to fundamental problems of business enterprise. "Despite their years of successful activity in special phases of industry, most young executives lack of familiarity with the wide range of essential business functions foreign to their own experience, Professor Gerald B. Tallman, director of the Program, explains. "They need, too," he adds, "a sense of the overall relationships between seemingly unrelated activities, as in such areas as labor relations, the interrelation-

## Teachers' Committee Studying Possibilities Of New Course, XXI

The institution of a new course of study, to be classified as Course XXI, is presently being considered by the Institute.

The Committee on Educational Survey published in December, 1949, a recommendation that a course fulfilling the needs of those students at the Institute who do not plan to go into professional engineering be established here. This course would, according to the committee report, devote half of the curriculum to engineering and the other half to the social sciences. The program would lead to the degree of Bachelor of Science, without specification as to engineering or scientific field, and would furnish a broad general education somewhat different from but equally promising as that furnished by a good liberal arts college. However, this curriculum was to be so designed that one year of further study would conclude the work in a field of science or engineering, now usually required for a bachelor's degree in any one specified department at the Institute. This five-year education would be considerably broader than that normally obtained through a four-year course. Furthermore, the total time for acquisition of a PhD, if one intended to go on to more advanced degrees, would be no longer than necessary through ordinary methods.

**School of Humanities Strengthened**

The Committee on Educational Survey saw advantages in this program both from the point of view of present students at the Institute and from the point of view of students who do not now elect to come here, as well as from the point of view of strengthening the School of Humanities and Social Studies.

The faculty has already implemented other suggestions of the Committee, such as the establishment of a new program in humanities for all undergraduates, the creation of a School of Humanities and Social Studies from a previous division status, and the constitution of a Committee on Undergraduate Policy.

The recommendations as to Course XXI were referred to the General Education subcommittee of the new Committee on Undergraduate Policy. This subcommittee, under the chairmanship of Professor Antoine M. Gaudin, studied the problem extensively for several months, and came up with a very different concept from that recommended previously by the Educational Survey Committee. This new concept emphasized a combination of science and humanities, rather than engineering and humanities, and did not carry the implications of transition to the upper degrees defined in the original proposal of the Survey Committee.

### Committee Set-up

The recommendations of the Gaudin Committee were so different from those of the Educational Survey Committee that they were probably mutually exclusive and the adoption of both would require a Course XXII as well as a Course XXI. The Committee on Undergraduate Policy has thus required one further study and has requested the Dean of Humanities and

(Continued on Page 3)

## Dr. Schmitt Elected To Fellowship By New York Society

Dr. Francis O. Schmitt, Head of the Department of Biology at the Institute, is one of 49 distinguished scientists who have been elected to Fellowship in the New York Academy of Sciences. Dr. Schmitt had been nominated to Fellowship by the Council of the Academy in recognition of his outstanding scientific achievements.

Internationally recognized as a leader in modern biological research, Dr. Schmitt has utilized the X-ray, polarized light, the electron microscope and other tools and techniques of experimental physics in fundamental biological research.

He is especially noted for his research on tissue metabolism, the chemistry and physiology of nerves and connective tissue, ultrasonic radiation, surface phenomena, mono and multiforms, analysis of molecular ultrastructure of nerves and tissue cells by X-ray diffraction, polarized light and light reflection methods, as well as advanced research with the electron microscope.

The New York Academy of Sciences, organized in 1817, is the fourth oldest scientific society in the United States and its present membership is located in all 48 States, the District of Columbia, and in many foreign countries.

## Annual Class Officer Election Will Take Place on March 3rd

Due to recent changes in the by-laws of the Institute Committee the annual class elections will be held on the fourth Tuesday of the Spring

term. This year the date will be March 3.

The changes were made on the recommendations of the Student Government Investigating Committee. The committee was set up last spring to investigate student government and to determine how the actions of the government can be made to work more efficiently. The committee has made several recommendations to the Institute committee for changes that have already been effected.

### Class Officers To Be Elected

Officers will be elected to the following positions: Permanent officers and Class Marshals, of the class of '53, and Class Officers of the classes of '54, '55, and '56. The permanent officers will hold office for five years; the others for one year.

The class officers for '54, '55 and '56 to be elected are President, Vice President, Secretary, Treasurer, and two Institute Committee representatives. Nominations petitions can be picked up on or after Wednesday, January 20 at the Secretariat's office in Litchfield Lounge. The deadline for the petitions will be 5 p. m. Tuesday, February 23. Voting booths will be set up in the lobbies of Buildings 10 and 2.

The elections this year are being managed by the elections division of the reorganized Secretariat, under the direction of Robert Jones, '54.

## U. S. Marine Corps Offers Opportunity To College Grads

A majority of the college seniors and graduates who enroll now for the Marine Corps Officer Candidate Course which will be conducted in March 1953, will receive specialized training, Lieutenant Karl E. Moore, USMC declared this week.

After completing basic officer training, 57 per cent of the graduates of this program will be assigned to specialist schools at Marine Corps Schools, Quantico, Virginia. The remaining 43 per cent, he stated, will be assigned infantry billets.

Lieutenant Moore said officer training programs are open to both college graduates and seniors who graduate between now and March 1, 1953. Applicants may be married or single. He advised interested college men to contact the Marine Corps Recruiting Station, Room 722 in the Post Office Building, or call Liberty 2-5600, Ext. 224 for an interview.

Once selected, an applicant is enlisted in the Marine Corps Reserve and attends a ten-week course at the Marine Corps Schools, Quantico, Virginia (35 miles from Washington, D. C.). Upon successful completion of this course, the candidate becomes a Second Lieutenant and serves for two years on active duty as a commissioned officer.

Application forms for the March class (and the July class, for June graduates), are available at Marine Recruiting offices. He stated it is advisable for prospective candidates to apply as soon as possible.

## Increasing Enrollments Hurting U. S. Colleges

For the first time since 1949, college enrollments have increased. As indicated in the survey conducted by the New York Times this is also coupled with a severe financial plight on the part of a very large per cent of the American Institutions. One out of every three liberal arts schools are operating in the red with the small independent schools particularly hard pressed.

As a result of these conditions, many of the nation's schools have been forced to reduce faculties and lower academic standards. Tuition raises have reached new peaks and the familiar American college is now finding it difficult to keep on the black side of the ledger.

Fortunately for the American colleges, the Korean conflict has not caused any decrease in enrollment, and the liberal draft deferments are enabling many students to continue their studies.

### Enrollments Increased

Freshmen enrollments have also increased with the greatest gain indicated in technological schools where increases averaged 12 per cent as compared to an average of 8.1 per cent throughout the nation. The survey has also indicated that the largest enrollments, both freshmen and upper-classmen are now appearing in the public schools.

These enrollments are apparently due to the very high increases in the

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# The Tech



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NO. 48

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Night Editor: Jerome Cohen '54

## CALENDAR OF EVENTS

## JANUARY 6 TO JANUARY 13, 1953

## TUESDAY, JANUARY 6

Committee on Machine Methods of Computation. Seminar: "Some Problems of Learning by Computers." Mr. Frederick A. Webster. Room 4-231, 4:00 p.m.

## WEDNESDAY, JANUARY 7

Electrical Engineering Department. Colloquium: "Radio Astronomical Research in the Netherlands." Dr. F. L. Stumpers. Room 6-120, 4:30 p.m. Refreshments in Room 6-321 at 4:00 p.m.

Metallurgy Department. Electrochemistry Colloquium: "Thermodynamics of Irreversible Processes Applied to Electrokinetics." Professor J. T. G. Overbeek. Room 4-231, 4:00 p.m.

Inter-Varsity Christian Fellowship. Lecture: "Prayer." Rev. Wm. J. Marson, Tremont Temple. Room 7-103, 5:00 p.m.

Chemistry Department. Harvard-M.I.T. Physical Chemistry Colloquium: "Studies of the Nucleation and Growth Reactions of Selected Types of Insulin Fibrils." Professor David F. Waugh. Room 6-120, 8:00 p.m.

Varsity Hockey Team. Game with Harvard. Boston Arena, 9:00 p.m.

## THURSDAY, JANUARY 8

American Chemical Society. Northeastern Section. Room 10-250, 4:00 p.m.

Physics Department. Colloquium: "Theory of the Vibrational Spectrum of Crystals." Dr. Elliott W. Montroll, Office of Naval Research, Washington, D.C. Room 6-120, 4:15 P.M.

Freshman Basketball Team. Game with Boston University. Walker Memorial, 6:30 p.m.

American Chemical Society. Northeastern Section. Room 10-250, 8:00 p.m.

Varsity Basketball Team. Game with Boston University. Walker Memorial, 8:15 p.m.

## FRIDAY, JANUARY 9

Mechanical Engineering Department. Seminar: "Design of Solar Houses." Mr. Austin Whillier. Room 3-270, 4:00 p.m. Refreshments in Room 3-174 from 3:30-4:00 p.m.

## SATURDAY, JANUARY 10

Freshman Wrestling Team. Match with Milton Academy. Saltonstall Gymnasium, Milton, 1:45 p.m.

Varsity Wrestling Team. Match with Amherst. Rockwell Cage, 2:00 p.m.

Freshman Swimming Team. Meet with Exeter Academy. M.I.T. Alumni Pool, 3:00 p.m.

Varsity Basketball Team. Game with Brandeis University. Brandeis Gymnasium, Waltham, 8:15 p.m.

Informal Dance Committee. Dance. Morss Hall, 8:30 p.m.-12 midnight.

Varsity Squash Team. Game with U.S. Military Academy. M.I.T. Squash Courts, 10:30 p.m.

## SUNDAY, JANUARY 11

Humanities Series Concert. The Aeolian Trio. Room 10-250, 3:30 p.m.

## TUESDAY, JANUARY 13

Aeronautical Engineering Department. Seminar: "Fatigue of Aircraft Structures." Mr. Paul Kuhn, National Advisory Committee for Aeronautics, Langley Field, Virginia. Room 35-225, 4:00 p.m. Refreshments in the duPont Room from 3:30-4:00 p.m.

## EXHIBITIONS

"Artists and Potters of Vallauris" (France) will be on display in the New Gallery of the Charles Hayden Memorial Library from 9:00 a.m. to 5:00 p.m. through January 9.

## CALENDAR OF EVENTS

The Calendar of Events appears in The Tech on Tuesday with announcements for the following week. Notices, typewritten and signed, must be in the office of the Editor, Room 7-204, not later than noon on Thursday, prior to the date of publication. Material for the Calendar of January 14-20 is due January 8.

## through the mail

To the Editor of THE TECH:

As a visitor to M.I.T., I was very pleased to be in attendance at the Tech Show of 1953, "Pass the Hat." I spent a most enjoyable evening, and was quite surprised to find that M.I.T. possessed students whose abilities in the non-technical fields were so well developed.

However, as a student at Brooklyn College, I was very much astonished at the apparent ignorance concerning life in that fair borough in which I attend classes. Perhaps Mr. Levine's remembrances of his home have been "sickled o'er with the pale cast of thought," for certainly the persons depicted in your epic as having come from Brooklyn are no more typical of "Brooklynites" than Mr. Norman Thomas would be as a representative of the National Association of Manufacturers. However, I must con-

fess that a very small minority exists in the borough of Brooklyn which does have an unusual "patois," somewhat similar to that spoken by certain members of your cast. On closer scrutiny, these people will be found to be immigrants from such places as Hoboken, Texas, and Harvard, who have sought to hide their identity for shame of their previous environments.

In spite of his misapprehensions, Mr. Levine is welcome to visit the campus of Brooklyn College, where I am sure that he will find a student body that will modify his impressions of the inhabitants of the City of Churches. If, on further examination, Mr. Levine does not vary his views, you may be sure that he will find it very difficult indeed to renew his visa for subsequent entrance to Brooklyn.

ELLIS KEMPNER,  
New York, N.Y.

December 10, 1952.

## fraternity findings

Many of the fraternities held their parties for the underprivileged children just preceding Christmas. If most of them were like the one at the Chi Pi house, the brothers had just as much fun as the children. Much against his will, big Jim Astrue put on the scratching horsehair beard of Santa and did a tremendous job of entertaining the children after a rather dusty entry through the chimney. When the cloud of smoke from the cap guns which the boys received for presents had begun to thin out, everyone got together and watched a long series of cartoons on the movie screen. More brothers were left recounting the humorous scenes than children as everyone went home a little happier than before.

The Pi Lambda Phi threw a big dance for all the fraternity men on campus who did not stay at home. The dance took place on a Mississippi River boat which had everything on it from a minstrel theatre to paddle wheels. Below deck in the bar was served a planter's punch which was evidently relished by the large crowd that attended. There were two cocktail glasses on the bar the size of which never ceased to amaze everyone—and especially those who had been standing there looking at them too long. The Upstarts furnished the music for the dance which was chiefly engineered by the freshmen.

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## L. S. C. Movies

"The Bicycle Thief" will be the Lecture Series Committee film presentation this week. This Italian masterpiece will be shown on Thursday, January 7, in Room 1-190 at 5:00, 7:30, and 9:30. Admission will be forty cents.

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Those chosen to participate in this Plan will be from the upper portion of their graduating class and will have evidenced unusual technical ability. They must also have evidenced imaginative ability and possess personality traits enabling them to work well with others.

**CITIZENSHIP**

Applicants must be United States citizens who can be cleared for "Secret."

**PARTICIPATING UNIVERSITY**

Washington University in St. Louis will participate in this program and candidates for Master of Science and Doctor of Science Degrees must meet entrance requirements for advanced students at this university.

**PROGRAM**

Under this Graduate Plan the candidate will work full time at McDonnell Aircraft Corporation until September 1953. From September 1953 to June 1954 candidates will work at M.A.C. from 28

to 36 hours per week, attending Washington University on an individually arranged schedule. A Master of Science Degree should be obtained within a maximum of two calendar years. Under this arrangement it will be possible for a candidate to earn approximately 85% of a normal year's salary and to attend the university during regular semesters while working toward his advanced degree.

**COMPENSATION**

Compensation will be commensurate with the individual's ability and experience. Compensation growth will be on the same basis as the full time members of the engineering staff. In addition, the candidate will be eligible for all other benefits accruing to full time employees.

**TUITION**

Tuition covering the required number of units necessary to obtain an advanced degree will be paid by McDonnell Aircraft Corporation.

**SELECTION OF CANDIDATES**

Candidates will be selected by officials of McDonnell Aircraft Corporation and Washington University.

**DATES FOR APPLYING**

January 1953 graduates should make informal applications prior to January 10, 1953. McDonnell Aircraft Corporation will then forward formal applications which should be returned by January 20, 1953, accompanied by up to date grade transcripts. Selections will be made during the month of February. June 1953 graduates should make informal applications no later than March 15, 1953.

ADDRESS CORRESPONDENCE TO  
Technical Placement Supervisor  
McDonnell Aircraft Corporation

Post Office Box 516

St. Louis 3, Missouri

## Beaver Swimmers Defeated By Crimson

On Wednesday, Dec. 17 of last year, the Freshmen swimming team went down to defeat with the Crimson out-racing them 40-35. This leaves their record at one win and two defeats.

### Highlights

Some highlights of the event took place in the 200 yard free style when Quinn Solem did the course within one second of the Tech record for that event.

In the backstroke event Bogan and Langendorf took second and third place, respectively.

The diving event was spectacular to see. Cryer, with only six weeks experience has attained a record of two 2nd places and one third, Holgate, who took first place for Technology in this event now holds a record of two 1st and one 3rd place.

Following is a summary of the race:

50 yard Freestyle—Jantzen, 3rd, (0:25.3) Roberts, 4th. Winning time: 25 flat.

100 yard Breast Stroke—Whipple, 3rd, Loeffler, 4th. Winning time: Hawkins (H) 1:01.7. New record.

200 yard Freestyle—Solem, 1st, Reynders, 4th. Winning time: 2:10.7. One second above M.I.T. record.

100 yard Back Stroke—Bogan, 2nd, Langendorf, 3rd. Good race, lost by touch.

100 yard Freestyle—Jantzen, 2nd, (0:59.6), Sullivan, 4th. Winning time: 54.0.

Dives—Holgate (M.I.T.) 1st, Cryer, (M.I.T.) 2nd. Winning points, 41.70.

150 yard Individual Medley—Solem, 3rd, (1:53.5) Whipple, 4th. Winning time 1:50.3.

150 yard Medley Relay—M.I.T. 1st. Bogan (back stroke); Cryer, (breast stroke), Langendorf (freestyle). Time 1:33.9.

200 yard Freestyle Relay—M. I. T. 1st. Roberts, Goldman, Bader, Hamlet, Time 1:52.3.

## Brandeis Regrets

The Tech has been informed that the Engineer basketball game to be played against Brandeis on Saturday, January 10 at Brandeis will have to take place with no Techmen rooting for their team. The gymnasium, where the game will take place is not yet completed. Therefore the spectators will be limited to Brandeis students alone.

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## College Students Drinking Habits Subject of Yale Investigation

Robert Straus, research associate at Yale University's Laboratory of applied Physiology has released preliminary results of a five year study into the drinking habits of the students of American Universities and colleges. He declared, "We hope the study will help create a better understanding of student behavior on the part of persons affected by such activities, such as residents of the college town, alumni, and parents."

who do drink beer expressed the opinion that could they afford other types of thirst quenchers they would gladly do so. Almost one half of the men would prefer hard liquors, but only a fifth can afford them. Wine also found a large following—especially among the coeds.

### New Course

(Continued from Page 1)

Social Studies to organize a committee to consider both plans and modifications of them, and recommend to the Policy Committee, it is hoped, by the end of this academic year, on the following points:

A—Whether or not there should be a Course XXI;

B—If in favor of Course XXI, specific proposals as to the nature of the curriculum, of the additional faculty and facilities required, and presumably the additional budget that might be required.

This committee has been established by Dean John E. Burchard with the following composition: Professors Thomas K. Sherwood and C. Richard Soderberg from the School of Engineering, Professor Philip M. Morse from the School of Science, Professors Ralph Freeman and E. Cary Brown from the Department of Economics, and Professors Howard Bartlett, John Blum, and Neal Hartley form the Department of English and History.

**Enrollments**

(Continued from Page 1)

struction is under way or being planned for the next few years.

American educational leaders are particularly distressed at the financial plight of the colleges and universities. They see a strengthening of democracy in the continuance of the American college and they believe that democracy needs the leadership found in higher education today more than ever. It is only with the continued help and support of the American people that this system of higher education will remain.

**E. D. P. Courses**

(Continued from Page 1)

ship of government and industry, domestic and international economy, and sociological development.

Participation in the Executive Development Program is limited to recipients of Sloan Fellowships. Nomination by an employer is a prerequisite, since employers cooperate in the program by sponsoring these men and by providing successful candidates with a year's leave of absence and financial aid. Fellows are drawn from both large and small companies in various types of industry.

**Candidates Selected By The Institute**

Candidates must be between the ages of 30 and 35 and they should have at least five to ten years of industrial experience, with part of this experience in a managerial capacity. Fellowship winners will be selected on a competitive basis by The Institute after consideration of the applicants' records and references and after consultation with their employers.

Awards range up to \$3860 for married men. Fellows will be in residence at the Institute in Cambridge from June 1953 to June 1954.

Begun in 1931 within the M.I.T. Department of Business and Engineering Administration, the Executive Development Program now has the increased resources and facilities for management education provided by the new School of Industrial Management. In this environment and with an increase by the Sloan Foundation in the funds available for the program, the Executive Development Program will in 1953-54 serve two groups of 15 to 18 fellowship recipients.

**Series of Seminars**

The year's work in the Executive Development Program is built upon a series of seminars dealing with operational problems of management, economic and governmental relations, and social and political implications. The educational resources of the School of Industrial Management are supplemented by those of the Department of Economics and Social Sciences. In addition, a distinguished group of industrial, government, and labor leaders meet with the Sloan Fellows or receive them on field trips covering many different types of industrial operations.

In large part, the members of the Executive Development Program as a group follow identical courses of study; but there is also time for elective subjects to meet special interests within the group, to serve areas in which certain fellows develop a certain curiosity and to more effectively adjust to strengths and weaknesses of individual members.

**Leads to Master's Degree**

The program may be arranged to meet the requirements of the degree of Master of Science in Industrial Management with the addition of an individual study of a specific management problem and its presentation as a thesis.

Complete information on the Executive Development Program and application blanks for Sloan Fellowships may be obtained from the Director of the Executive Development Program, M.I.T., School of Industrial Management, 50 Memorial Drive, Cambridge 39, Massachusetts.

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3. Next, you will be given a written and manual aptitude test.
4. If you pass your physical and other tests, you will be scheduled for an Aviation Cadet Training Class. The Selective Service Act allows you a four-month deferment while waiting class assignment.

**Where to get more details:** Visit your nearest Air Force Base or Air Force Recruiting Officer. **OR WRITE TO: AVIATION CADET HEADQUARTERS, U. S. AIR FORCE, WASHINGTON 25, D. C.**

